

Arginase 1 (ARG1) Rabbit pAb

Catalog No.: A1847 **62 Publications**

Basic Information

Observed MW

40 kDa

Calculated MW

35 kDa

Category

Primary antibody

Applications

WB,IF-P,IHC-P,ELISA

Cross-Reactivity

Human,Mouse,Rat

Background

Arginase catalyzes the hydrolysis of arginine to ornithine and urea. At least two isoforms of mammalian arginase exist (types I and II) which differ in their tissue distribution, subcellular localization, immunologic crossreactivity and physiologic function. The type I isoform encoded by this gene, is a cytosolic enzyme and expressed predominantly in the liver as a component of the urea cycle. Inherited deficiency of this enzyme results in argininemia, an autosomal recessive disorder characterized by hyperammonemia. Two transcript variants encoding different isoforms have been found for this gene.

Recommended Dilutions

WB 1:500 - 1:5000

IF-P 1:50 - 1:200

IHC-P 1:1000 - 1:4000

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

383

Swiss Prot

P05089

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

ARG1; arginase-1; Arginase 1 (ARG1)

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

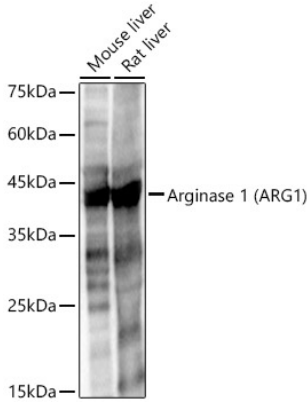
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide. May contain 0.05% BSA as specified on the Certificate of Analysis.

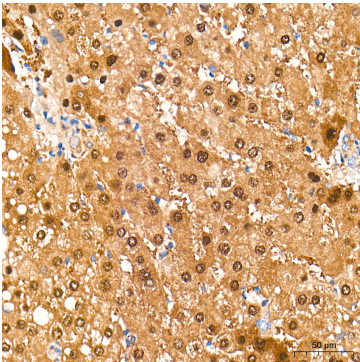
Validation Data



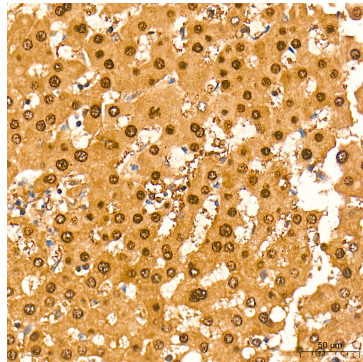
Western blot analysis of lysates from Hep G2 cells using Arginase 1 (ARG1) Rabbit pAb (A1847) at 1:1000 dilution incubated overnight at 4°C.
 Secondary antibody: Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
 Lysates/proteins: 25 µg per lane.
 Blocking buffer: 3% nonfat dry milk in TBST.
 Detection: ECL Basic Kit (RM00020).
 Exposure time: 60 s.



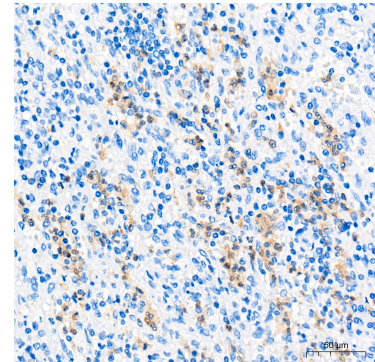
Western blot analysis of various lysates using Arginase 1 (ARG1) Rabbit pAb (A1847) at 1:1000 dilution.
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
 Lysates / proteins: 25 µg per lane.
 Blocking buffer: 3% nonfat dry milk in TBST.
 Detection: ECL Basic Kit (RM00020).
 Exposure time: 1s.



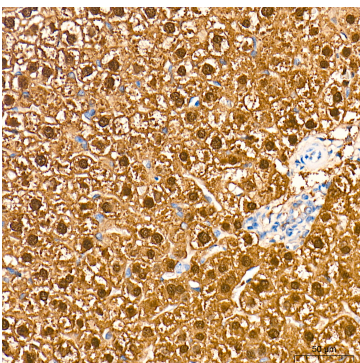
Immunohistochemistry analysis of paraffin-embedded Human liver cancer tissue using Arginase 1 (ARG1) Rabbit pAb (A1847) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



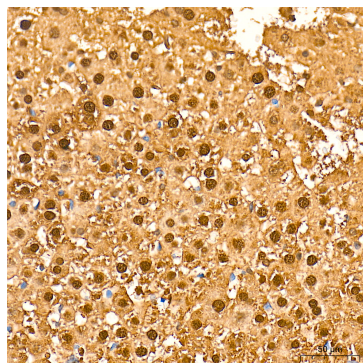
Immunohistochemistry analysis of paraffin-embedded Human liver tissue using Arginase 1 (ARG1) Rabbit pAb (A1847) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



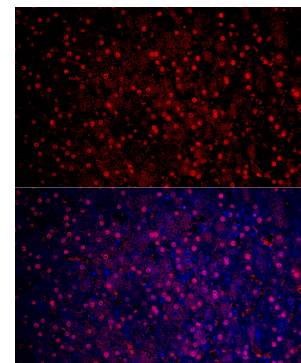
Immunohistochemistry analysis of paraffin-embedded Human spleen tissue using Arginase 1 (ARG1) Rabbit pAb (A1847) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-



Immunohistochemistry analysis of paraffin-



Immunofluorescence analysis of paraffin-

Validation Data

embedded Mouse liver tissue using Arginase 1 (ARG1) Rabbit pAb (A1847) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

embedded Rat liver tissue using Arginase 1 (ARG1) Rabbit pAb (A1847) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

embedded human liver cancer using Arginase 1 (ARG1) Rabbit pAb (A1847) at dilution of 1:50 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.